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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/726,478	12/03/2003	Masaki Shinkawa	0001536USU/2215	5887

7590 07/30/2004

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EXAMINER
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NGUYEN, PHUONGCHI T

ART UNIT	PAPER NUMBER
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2833

DATE MAILED: 07/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/726,478

Applicant(s)

SHINKAWA, MASAKI

Examiner

Phuongchi Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☒ Claim(s) 5 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

**DETAILED ACTION*****Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shyu (US4666232) in view of Pauza et al (US5890926).

In regarding to claim 1, Shyu discloses an antenna cord plug structure connecting a coaxial cable, which connects an antenna device and a transmitter-receiver, with the antenna device, the antenna cord plug structure comprising a terminal portion (1) (figure 1) formed on one of end portions of the coaxial cable (a) and connected to the antenna device (it is inherent), the terminal portion (1) comprising a central terminal (3) formed on a distal portion and connected to a central conductor (c) of the coaxial cable (a), and an external terminal (2) formed to cover a part of the coaxial cable (a), connected to an external conductor (b) of the coaxial cable (column 2, lines 29-31), and having a first end and second end, in which the central conductor (c) is arranged at the first end of the external terminal (2) via an insulation portion (of a) and the coaxial cable (a) is extended from the second end of the external terminal (2). Shyu lacks a plug body. However, Pauza et al teaches (figure 3) a plug body (50) comprising an insertion opening (adjacent 56) into which the coaxial cable (42) is inserted and an engaging portion (62) engaging and fixing the coaxial cable (42) inserted into the insertion opening (adjacent 56) in a state of being bent at approximately 90 degrees. It would have been obvious to one having ordinary skill at the time the invention was made to modify the antenna cord plug

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of Shyu by providing the plug body as taught by Pauza et al for holder the coaxial cable in a certain location.

In regarding to claim 2, Shyu discloses the invention, but lacks an insulating plug body. However, Pauza teaches the plug body (50) (figure 3). It would have been obvious to one having ordinary skill at the time the invention was made to modify the antenna cord plug of Shyu by providing the plug body as taught by Pauza et al and made the plug body by insulative material for prevent electric shock when the coaxial cable connected to the antenna cord plug.

In regarding to claim 3, Shyu discloses the invention, but lacks the end of the external terminal abuts on the insertion opening. However, Pauza teaches the end of the external terminal (46) abuts on the insertion opening (adjacent 56) of the engaging portion (62) (figure 4). It would have been obvious to one having ordinary skill at the time the invention was made to connect tightly the end of the external terminal of the antenna plug of Shyu next to the insertion opening of the plug body as taught by Pauza et al for having a good connection between the antenna cord plug and the plug body.

In regarding to claim 4, further in view of claim 3, a fitting portion cited in claim 4 is understood as a broad term. Therefore, the member (64) of Pauza is called a fitting portion (figure 3). Claim 4 is rejected for the same reason of claim 3.

***Allowable Subject Matter***

3. Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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4. The following is a statement of reasons for the indication of allowable subject matter: In regarding claim 5, none of prior art teaches so suggests an elastic deformation of the insulating resin plug body for holding the coaxial cable comprising an insertion opening and an engaging portion in a state of being bent at approximately 90 degrees with a slot portion of the engaging portion having a smaller width than a diameter of the coaxial cable to press the coaxial cable into.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuongchi Nguyen whose telephone number is (571) 272-2012. The examiner can normally be reached on 8:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on (571) 272-2800 ext 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PCN

July 22, 2004



**ROSS GUSHI**  
**PRIMARY EXAMINER**